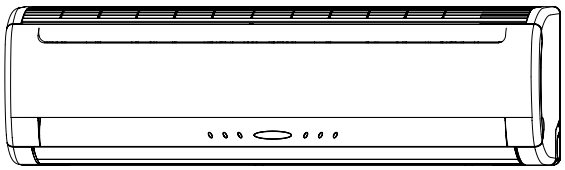
USER'S MANUAL

MITSUBISHI HEAVY INDUSTRIES, LTD.

AIR-CONDITIONER

ENGLISH



SRK63ZE-S1
SRK71ZE-S1

MANUEL DE L'UTILISATEUR — FRANÇAIS
CLIMATISEUR

ANWENDERHANDBUCH — DEUTSCH
KLIMAGERÄT

ISTRUZIONI PER L'USO — ITALIANO
CONDIZIONATORE D'ARIA

MANUAL DEL PROPIETARIO — ESPAÑOL
ACONDICIONADOR DE AIRE

GEBRUIKERSHANDLEIDING — NEDERLANDS
AIRCONDITIONING

MANUAL DO UTILIZADOR — PORTUGUÊS
APARELHO DE AR CONDICIONADO

ΟΔΗΓΙΕΣ ΧΡΗΣΗΣ — ΕΛΛΗΝΙΚΑ
ΚΛΙΜΑΤΙΣΤΙΚΟ

РУКОВОДСТВО ПО ЭКСПЛУАТАЦИИ — РУССКИЙ
КОНДИЦИОНЕР ВОЗДУХА

KULLANIM KILAVUZU — TÜRKÇE
SPLİT KLİMA

CE

This air conditioner complies with **EMC** Directive 89/336/EEC, LV Directive 73/23/EEC.

Ce climatiseur est conforme à la Directive **EMC**: 89/336/EEC, LV Directive 73/23/EEC.

Dieses Kimagerät erfüllt die **EMC** Direktiven 89/336/EEC, LV Direktiven 73/23/EEC.

Questo condizionatore d'aria è conforme alla Direttiva **EMC**: 89/336/EEC, LV Direttiva 73/23/EEC.

Este acondicionador de aire cumple con la directiva **EMC**: 89/336/EEC, LV Directiva 73/23/EEC.

Deze airconditioner voldoet aan **EMC** Directive 89/336/EEC, LV Directive 73/23/EEC.

Este aparelho de ar condicionado está em conformidade com a Directiva **EMC** 88/336/CEE e a Directiva LV 72/23/CEE.

Αυτό το κλιματιστικό είναι σύμφωνο με τις προδιαγραφές της Οδηγίας **EMC** 88/396 και της Οδηγίας LV 73/23 της ΕΟΚ.

RKW012A212

Thank you for purchasing a MITSUBISHI HEAVY INDUSTRIES, LTD. Air-Conditioner. To get the best long-lasting performance, read and follow this User's Manual carefully before using your air-conditioner. After reading, please store the Manual in a safe place and refer to it for operational questions or in the event of any irregularities.

This air-conditioner is intended for domestic use.

An alternative refrigerant (R410A) is used in this air-conditioner. When asking the dealer for service or inspection and maintenance, explain the dealer about this matter.

ENGLISH

contents

Safety precautions 2
Choice of operations and features 4
Name of each part and its function 5
Operation and indication section for remote control 7
AUTO mode operation procedure 8
Temperature adjustment during AUTO 8
About FAN SPEED 8
COOL/HEAT/DRY/FAN mode operation procedure 9
Air-conditioner operating conditions 9
Characteristics of HEAT mode operation 9
Air flow direction adjustment procedure 10
SLEEP operation procedure 11
OFF-TIMER operation procedure 11
ON-TIMER operation procedure 12
SLEEP operation + ON-TIMER operation procedure 12
PROGRAM TIMER operation procedure 13
Present time setting procedure 13
HIGH POWER/ECONOMY operation procedure 14
ALLERGEN CLEAR operation procedure 14
Concerning CLEAN operation 15
Emergency run operation 15
Power blackout auto restart function 15
Remote control handling procedure 16
When the operation fails with the remote control 16
Operating hints 17
Maintenance 17
Has the unit been installed correctly? 19
Troubleshooting 19
Please remember! 20
When to contact your distributor without delay 21
Self diagnosis function 21

Safety precautions

- Before starting to use the system, please read these "Safety precautions" carefully to ensure proper operation of the system.
- The safety precautions are classified as "⚠ DANGER" and "⚠ CAUTION". Precautions as shown in the column "⚠ DANGER" indicate that improper handling could have dramatic consequences like death, serious injury, etc. Nevertheless, even precautions as shown in the column "⚠ CAUTION" might pose a serious problem, depending on the circumstances. Please observe these precautions with great care, since they are essential to your safety.
- Symbols which appear frequently in the text have the following meaning:

	Strictly prohibited		**Observe instructions with great care**		**Provide positive earthing**

- When you have read the instruction manual, please keep it near at hand for consultation. If someone else takes over as operator, make certain that the manual is also passed on to the new operator.

INSTALLATION PRECAUTIONS

⚠ DANGER

The system is meant for domestic, residential etc. use.

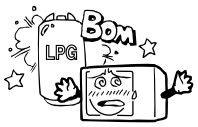
If used in inferior environments, such as an engineering workplace, the equipment may function poorly.

The system must be installed by your dealer or a qualified professional.

It is not advisable to install the system yourself, as faulty handling may cause leakage of water, electric shock or fire.

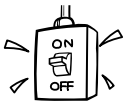
⚠ CAUTION

Do not install near places where inflammable gas may leak.



Gas leaks may cause fire.

Depending on the place of installation, a circuit breaker may be necessary.



If you don't fit a circuit breaker, you may cause an electric shock.

Make sure that you drain the hose properly, so that all the water has dripped out.

Negligence may cause flooding in the room resulting in wet furniture.

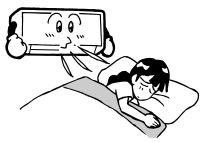
Make sure that the system has been properly earthed.

Earth cables should never be connected to a gas pipe, municipal water pipe, lightning conductor or telephone earth cable. Incorrect installation of the earth cable may produce an electric shock.

OPERATION PRECAUTIONS

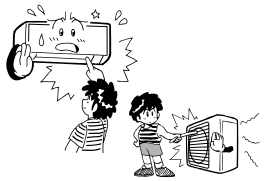
⚠ DANGER

Do not expose yourself to the cooling air for prolonged periods.



This could affect your physical condition and cause health problems.

Do not insert anything into the air inlet.



This may cause injury, as the internal fan rotates at high speed.

Store the remote control out of reach of infants.

Failure to observe this may result in the batteries being swallowed or other accidents.

⚠ CAUTION

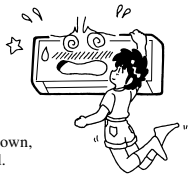
Only use approved fuses.

Use of steel or copper wire instead of an approved fuse is strictly forbidden, as it may cause a breakdown or fire.

Do not handle the switches with wet hands.

This may cause an electric shock.

Don't swing from the system.

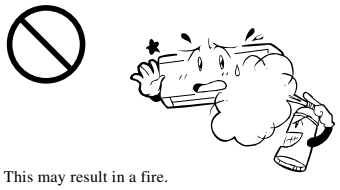


If the system falls down, you may get injured.

Safety precautions

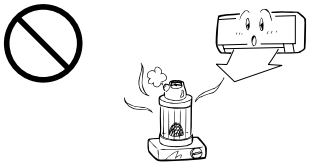
⚠ CAUTION

Do not place a combustible insecticide or paint spray near the blower, nor aim it directly at the system.



This may result in a fire.

You should not expose any combustion appliance directly to the air stream of the air-conditioner.



The appliance may then work inadequately.

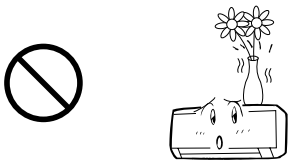
Do not wash the air-conditioner with water.

This could cause an electric shock.

The system should only be used for its original purpose and not for anything else like, for instance, preservation of food, plants or animals, precision devices or works of art.

The system is only intended for use in ordinary domestic rooms. Any other use of the system may damage the quality of food, etc.

Do not place anything containing water, like vases, on top of the unit.



Water entering the unit could damage the insulation and therefore cause an electric shock.

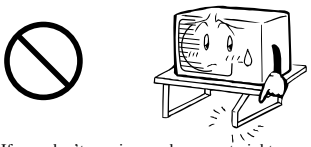
Do not install the system at a place where the air stream of the blower is aimed directly at plants or animals.

This will damage their health.

Do not sit on the outdoor unit nor put anything on it.

If the unit falls down or things drop off it, people could get hurt.

After a long period of use, check the unit's support structure from time to time.



If you don't repair any damage straightaway, the unit may fall down and cause personal injury.

Do not touch the aluminum fins on the air heat exchanger.

Failure to observe this may result in injury.

If you operate the system together with a combustion appliance, you must regularly ventilate the indoor air.

Insufficient ventilation may cause accidents due to oxygen deficiency.

Stand firmly on a stepladder or other stable object when removing the inlet panel and filters.

Failure to observe this may result in injury through insecure objects toppling over.

When you clean the system, stop the unit and turn off the power switch.

Never clean the unit while the internal fan is rotating.

Do not place objects near the outdoor unit or allow leaves to gather around the unit.

If there are objects or leaves around the outdoor unit, small animals may enter unit and contact electrical parts resulting in break down, emission of smoke or flame.

▮ PRECAUTIONS FOR TRANSFER OR REPAIRS

⚠ DANGER

Consult your dealer for repairs to the system.

Wrong repairs could cause an electric shock, fire, etc.

If the air-conditioner is moved elsewhere, contact your dealer or a professional fitter.

Faulty installation may cause water leakage, electric shock, fire, etc.

If you notice anything abnormal (smell of burning, etc.), stop the system, turn off the power switch and consult your dealer.

Continued use of the system in abnormal circumstances may result in malfunctioning, electric shock, fire, etc.

Choice of operations and features

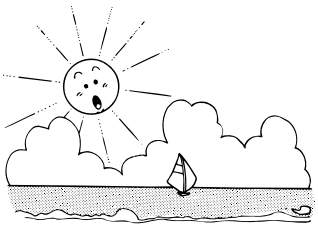
Choice of operations

HEAT Page 9

The unit draws in heat from the outside air, transfers it inside and heats the room.

COOL Page 9

Cooling by extracting heat from the room.



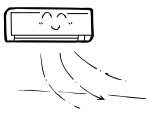
DRY Page 9

Drying by extracting damp from the room.

Functioning of microcomputer depends on setting and room temperatures. It dehumidifies while keeping room temperature almost constant.

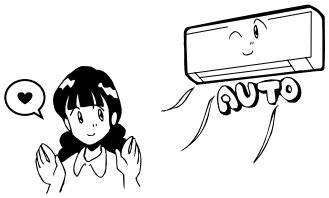
FAN Page 9

Fanning by circulating room air.



AUTO Page 8

Automatic selection of operating mode.



The Auto mode automatically selects the operation mode (HEAT, COOL or DRY), depending on the room temperature when switched on.

Features

Amenity facility Page 13

When using the timer to switch on, the system should become operational shortly before the set time, depending on the room temperature so that the desired temperature should be reached at the set time.

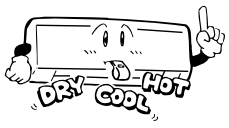
TIMER procedure Page 11, 12

There are three timers, for SLEEP, ON and OFF. They can be set as desired.

HIGH POWER mode Page 14

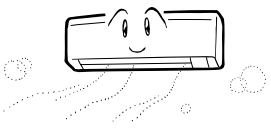
Turning up the power operates the air-conditioner in the power cooling and heating mode.

Adjustment of airflow Page 10



- MULTI-DIRECTIONAL AIR FLOW
  This function sets the unit at the most suitable angle for blowing, imitating a natural breeze.
- SWING FLAP
  Flap moves up and down continuously.
- SWING LOUVER
  Louver moves left and right continuously.
- MEMORY FLAP (FLAP OR LOUVER STOPPED)
  Once the flap or louver position has been set, the unit will memorise it and continue in the same position the next time.

ECONOMY mode Page 14

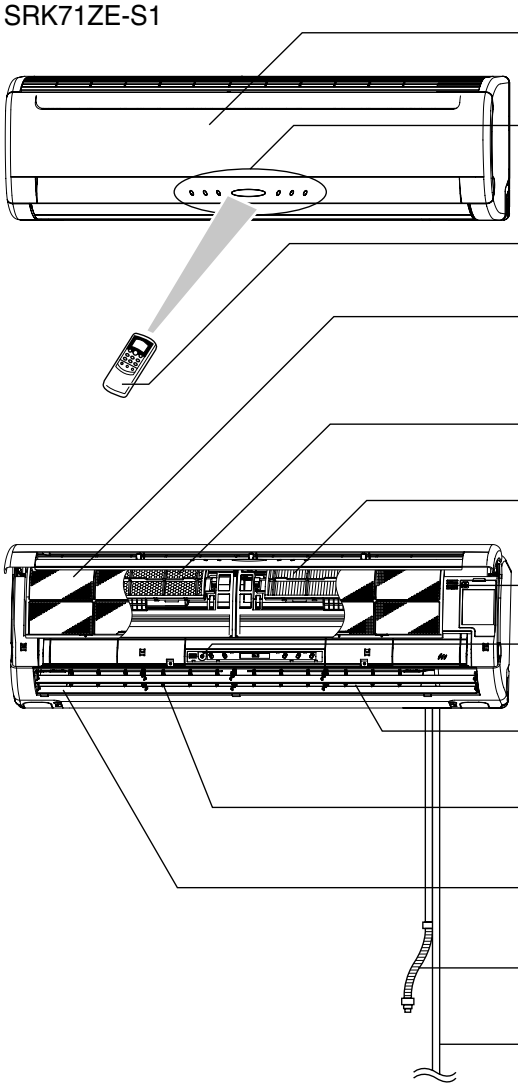


This is an economic level of operation.

Name of each part and its function

INDOOR UNIT

SRK63ZE-S1
SRK71ZE-S1



Air inlet panel
Draws in the indoor air.

Unit indication section and remote control signal receiver

Wireless remote control

Air filter
Removes dust or dirt from the inlet air.
Page 17

Photocatalytic washable deodorizing filter

Allergen clear filter

Room temperature detector

Unit operation switch

Air outlet
Air blows out of here.

Left/right air flow adjustment fin
Page 10

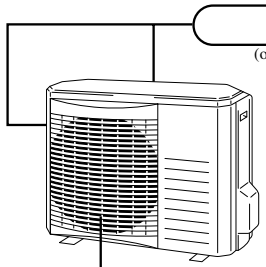
Up/down air flow direction adjustment flap
Page 10

Drain hose
Drains water from the dehumidified air.

Refrigerant piping connection electric flex

OUTDOOR UNIT

SRC63ZE-S1
SRC71ZE-S1

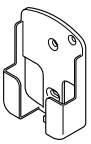


Air inlet
(on side & rear surface)

Air outlet

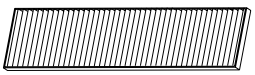
Accessories

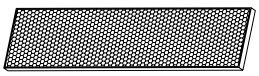
Wireless remote control


Wireless remote control holder

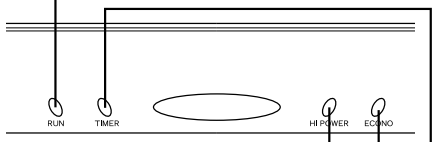
Battery (R03×2)

Wood screw (Quantity:2)
(for remote control holder mounting)


Allergen clear filter
(Light orange)

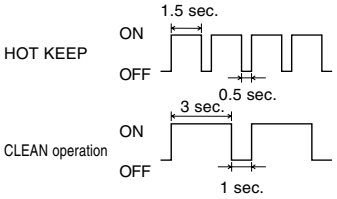

Photocatalytic washable
deodorizing filter (Orange)

Unit indication section



RUN (HOT KEEP) light (green)

- Illuminates during operation.
- Blinks at air flow stop due to the 'HOT KEEP' and 'CLEAN operation'.



Page 20

HI POWER light (green)

Illuminates during HIGH POWER operation.

ECONO light (orange)

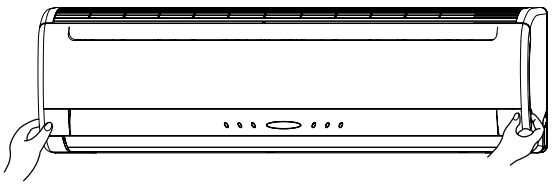
Illuminates during ECONOMY operation.

TIMER light (yellow)

Illuminates during TIMER operation.

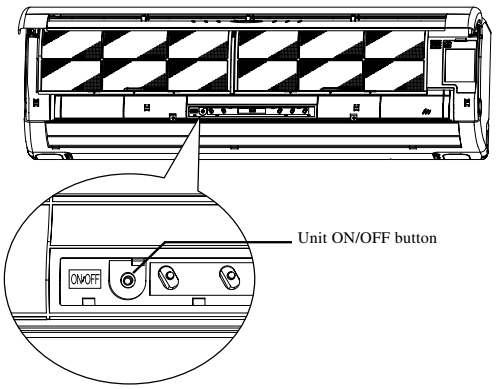
How to open the air inlet panel

Place fingers at the recesses on both sides of the panel and pull up the panel to this side so that it will be opened by about 60 degrees.



Unit ON/OFF button

In emergencies, this button can be used for turning on/off the unit when remote control is not available. Page 15

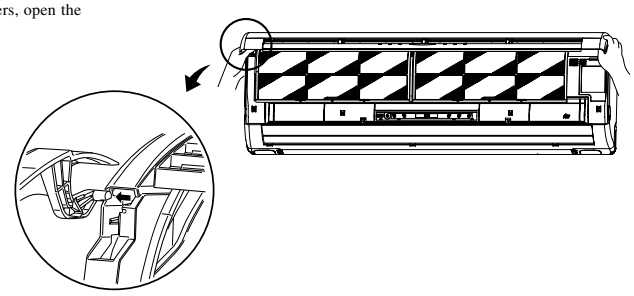


How to close the air inlet panel

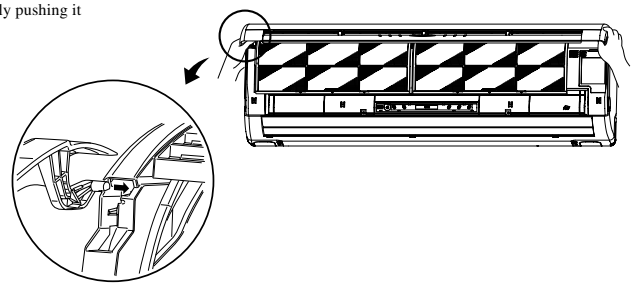
Push both sides evenly and press further lightly at the center.

Removal, installation of air inlet panel

When removing the air inlet panel for internal cleaning or others, open the panel by 80 degrees and then pull it to this side.



Secure either the upper or lower edge of the air inlet panel by lightly pushing it in, and then close the panel.



Operation and indication section for remote control

Operation section

FAN SPEED button
Each time the button is pushed, the ■ indicator is switched over in turn.

HI POWER/ECONO button
This button changes the HIGH POWER/ECONOMY mode.
Page 14

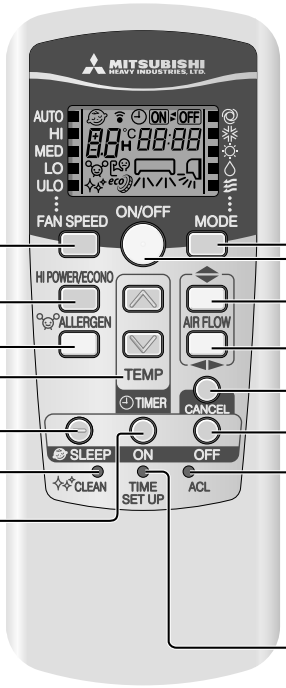
ALLERGEN CLEAR button
This button selects ALLERGEN CLEAR operation.
Page 14

TEMPERATURE button
This button sets the room temperature.
(This button changes the present time and TIMER time.)

SLEEP button
This button changes to SLEEP operation.
Page 11

CLEAN switch
This switch changes the CLEAN mode.
Page 15

ON TIMER button
This button selects ON TIMER operation.
Page 12



- The above illustration shows all controls, but in practice only the relevant parts are shown.

OPERATION MODE select button
Each time the button is pushed, the ■ indicator is switched over in turn.

ON/OFF (luminous) button
Press for starting operation, press again for stopping.

AIR FLOW (UP/DOWN) button
This button changes the air flow (up/down) mode.
Page 10

AIR FLOW (LEFT/RIGHT) button
This button changes the air flow (left/right) mode.
Page 10

CANCEL button
This button cancels the ON timer, OFF timer, and SLEEP operation.

OFF TIMER button
This button selects OFF TIMER operation.
Page 11

RESET switch
Switch for resetting microcomputer.
Page 16

TIME SET UP switch
This switch for setting the time.
Page 13

Indication section

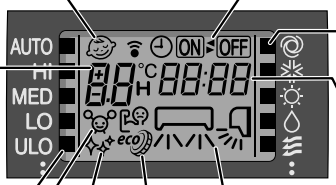
SLEEP indicator
Indicates during SLEEP operation.

TEMPERATURE indicator
Indicates set temperature.
(Does not indicate temperature when operation mode is on AUTO)

FAN SPEED indicator
Indicates set air flow rate with ■ lamp.

ALLERGEN CLEAR indicator
Indicates during ALLERGEN CLEAR operation.

CLEAN indicator
Indicates during CLEAN operation.



ON/OFF TIMER indicator
Indicates during ON/OFF TIMER operation.

OPERATION MODE indicator
Indicates selected operation with ■ lamp.
[(Auto) • (Cool) • (Heat) • (Dry) • (Fan)]

TIME indicator
Indicates present time or timer setting time.

AIR FLOW indicator
Shows selected flap and louver mode.

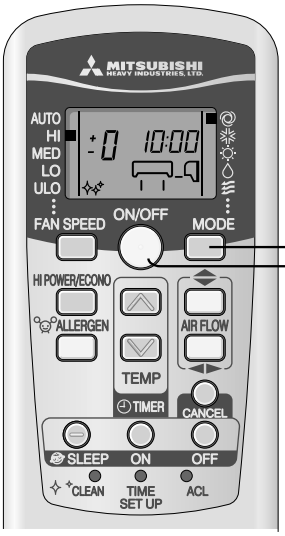
HI POWER/ECONO MODE indicator
Indicates during HIGH POWER/ECONOMY mode operation.

Transmission procedure

When each button on the remote control is pressed – with the remote control pointing towards the air-conditioner unit – a signal is transmitted.
When the air-conditioner receives the signal correctly, it will beep.

AUTO mode operation procedure

■ Automatically selects the operation mode (COOL, HEAT, DRY) depending on the room temperature when switched on.



When the unit is not in AUTO mode:

1 **Press MODE button.**

Move the [■ mark] to the (Auto) position.

Aim the remote control at the air-conditioner.

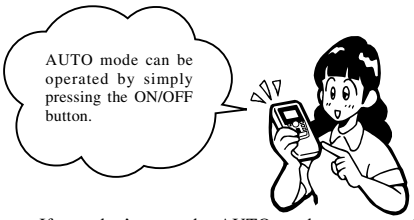
2 **Press the ON/OFF button.**

To stop:	**Press the ON/OFF button.**

NOTE

- Air is not blowing out during the operation.

Page 20



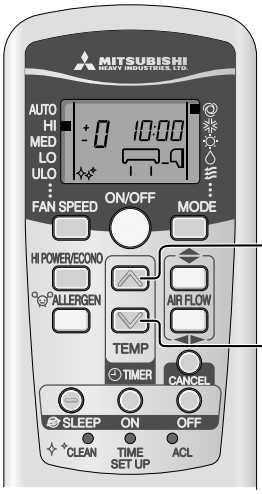
- If you don't want the AUTO mode program, change to COOL, HEAT, DRY or FAN instead of AUTO.

Page 9

Air flow direction adjustment procedure. Page 10

Temperature adjustment during AUTO

■ Air temperature adjustment is possible even during automatic operation. There are 6 levels of adjustment possible with the ⌃ button or the ⌄ button.



When a change in temperature is desired.

1 **Press the ⌃ or ⌄ button.**

When it is a little cold

Press the ⌃ button.

■ Each time the ⌃ button is pressed, the switch over occurs in the following order –6 → –5 → ..... –1 → ±0 → +1 ..... +6.
When +6 is indicated, even if the ⌃ button is pressed, the indicator does not change.

When it is a little hot

Press the ⌄ button.

■ Each time the ⌄ button is pressed, the switch over occurs in the following order +6 → +5 → ..... +1 → ±0 → –1 ..... –6.
When –6 is indicated, even if the ⌄ button is pressed, the indicator does not change.

About FAN SPEED

■ You can choose the capacity of your air-conditioner when heating, cooling or fan.

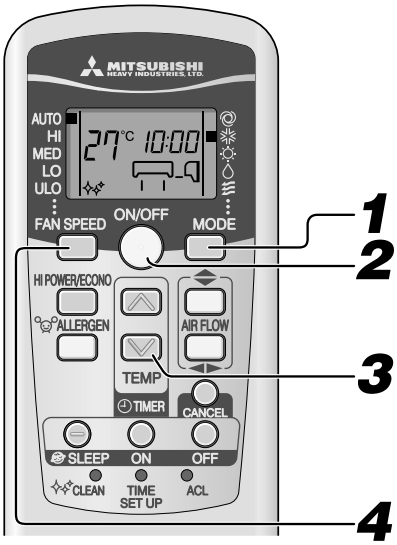
Operation capacity by your choice	FAN SPEED
Set automatically by microcomputer	AUTO
Powerful operation with high capacity	HI
Standard operation	MED
Energy-saving operation	LO
Silent operation	ULO

Press the FAN SPEED button.

Move the [■ mark] to the desirable fan speed position.

AUTO → HI → MED → LO → ULO

COOL/HEAT/DRY/FAN mode operation procedure



Aim the remote control at the air-conditioner.

1 **Press the MODE select button.**

Move the [■ mark] to the desirable operation position.

❄ (Cool), ☼ (Heat), ♢ (Dry), ≡(Fan)

2 **Press the ON/OFF button.**

3 **Press the TEMP button.**

Press ⌃ or ⌄ button for the desired temperature.

Standard

COOL	26°C~28°C	HEAT	22°C~24°C	DRY	21°C~24°C	FAN	——

4 **Press the FAN SPEED button**

Set the fan speed as desired.

Air flow direction adjustment procedure. Page 10

To stop:	Press the ON/OFF button.

NOTE

- The air is not blown out during the operation.

Page 20

Program changing procedure

Set the new program.

- The operation program can also be set or changed when the air-conditioner is not in operation.

Air-conditioner operating conditions

■ Use within the following operational range. Operating outside of this range may result in the protection devices being activated, preventing the unit from working.

	Cooling operation	Heating operation
Outside temperature	Approximately -15 to 46 °C	Approximately -15 to 21 °C
Inside temperature	Approximately 18 to 32 °C	Approximately 15 to 30 °C
Inside humidity	Below approximately 80% The long-term use of the unit with a humidity level exceeding 80% may result in condensation forming on the surface of the indoor unit, leading to water drips.	—

Characteristics of HEAT mode operation

Mechanism and capacity of HEAT mode operation

■ **Mechanism**

- The unit draws in heat from the cold outside air, transfers it indoors and heats the room. The heating capacity of the heat pump mechanism decreases when the outside air temperature gets colder.
- The hot air circulation system takes a while before warming up the room temperature.
- If the outside temperature becomes extremely low, it would be better to use an additional source of heating.

Defrosting

If the outside temperature becomes low and humidity is high, the heat exchanger in the outdoor unit may frost over, which prevents efficient heating.

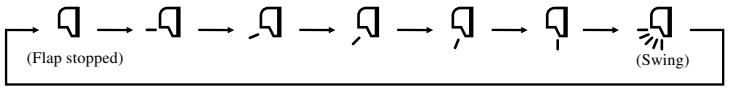
If this happens, the automatic defroster is activated and during defrosting the heating operation stops for 5 to 10 minutes.

- Both indoor and outdoor fans stop and the RUN light (green) blinks slowly (1.5 sec. ON, 0.5 sec. OFF) during defrosting.
- The outdoor unit may give off some steam during defrosting. This is to help the defrosting process and is not a defect.
- The HEAT operation resumes as soon as defrosting has been completed.

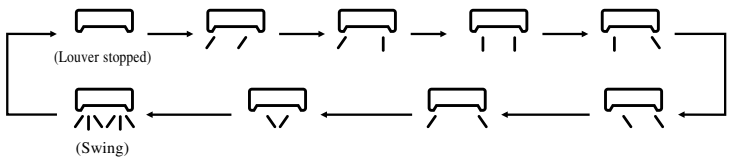
Air flow direction adjustment procedure

Adjusting air flow direction

■ Up/down direction can be adjusted with the AIRFLOW ⬍ (UP/DOWN) button on the remote control. Each time when you press this button the mode changes as follows:
Change to AIRFLOW (UP/DOWN) mode.



■ Left/right direction can be adjusted with the AIRFLOW ◄► (LEFT/RIGHT) button on the remote control. Each time when you press this button the mode changes as follows:
Change to AIRFLOW (LEFT/RIGHT) mode.



NOTE

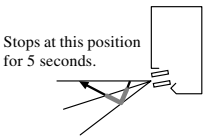
- When heating operation starts, the cold air outlet is blocked, so the flap and louver move to the horizontal / center position, and resume the position that was set after the warm air output begins.
- When the compressor stops because the room temperature is higher than the temperature setting and it is in DEFROSTING operation, the flap and louvers will be in the horizontal / center position.
- The air flow direction cannot be set in the instances above. Change the air flow direction settings after the warm air starts flowing and it moves to the airflow direction that had been set.

Multi-directional Air Flow (up/down air scroll and left/right air scroll)

■ Activating both up/down air swing and left/right air swing at the same time results in a multi-directional air flow.

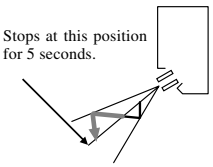
Up/down air scroll

In COOL, DRY and FAN operation



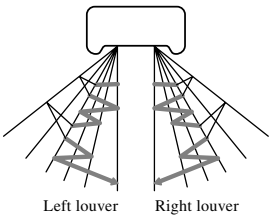
Thick line ▬: moves quickly
Thin line ▬: moves slowly

In HEAT operation

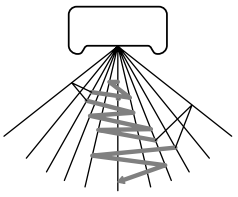


Left/right air scroll

In COOL, DRY and FAN operation



In HEAT operation



MEMORY FLAP (FLAP OR LOUVER STOPPED)

When you press the AIRFLOW (UP/DOWN or LEFT/RIGHT) button once while the flap or louver is operating, it stops swinging at an angle.Since this angle is memorized in the microcomputer, the flap or louver will automatically be set at this angle when the next operation is started.

⚠ DANGER

- Avoid constant airflow to the body for hours on end.

⚠ CAUTION

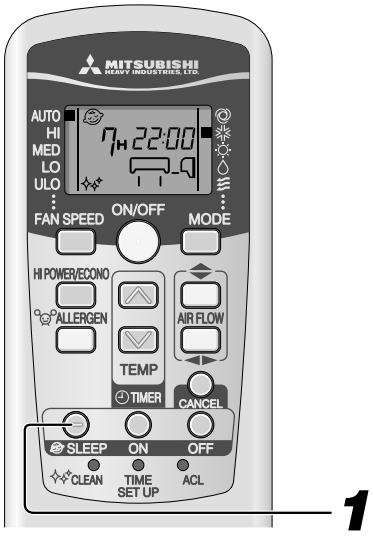
- When in COOL or DRY operation, do not operate for hours on end with the air flow blowing straight down. Otherwise, condensation may appear on the outlet grill and drip down.
- Do not try to adjust the flaps and louvers by hand, as the control angle may change or the flap or louver may not close properly.

- Recommended angle of the flap when stopping

HEAT		(Slant forward blowing)
COOL, DRY		(Horizontal blowing)

SLEEP operation procedure

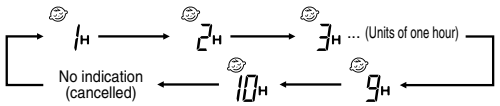
■ The unit stops automatically at the end of the set period of time.
The room temperature is automatically controlled when the set time lapses, so that the room does not become too cold during cooling or too warm during heating. Page 13



1 **Press the SLEEP button.**

■ **If this is pressed while the unit is off**
SLEEP operation starts with the previous operation settings, and the air conditioning is turned off after the time that has been set passes.

■ **If this is pressed while the unit is running**
Each time the button is pressed, the indication changes as follows:



Example: You wish it to stop after 7 hours.

Set to 7H

The timer light (yellow) is on.

⇩

- The unit stops at the end of the set period of time.

Changing of set time

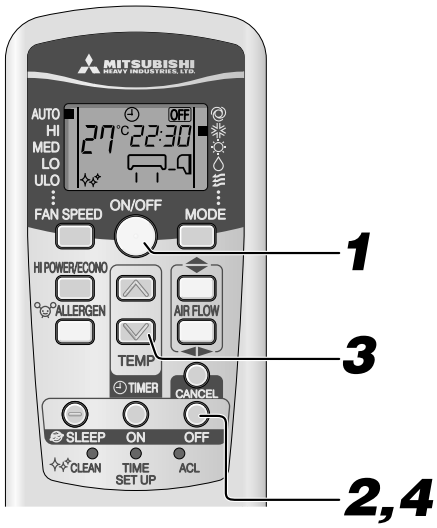
Set to a new time by using SLEEP button.

Releasing procedure

Press the CANCEL button to turn off the SLEEP indicator.

OFF-TIMER operation procedure

■ The unit stops automatically at the end of the set period of time. If it is stopped, perform the operations starting with STEP 1 and if running start with STEP 2.



Example: You wish it to stop 22:30.

1 **Press the ON/OFF button.**

2 **Press the OFF TIMER button.**

OFF TIMER indicator OFF is blinking.

3 **Press the "⌃ or ⌄" button.**

Each time the ⌃ button is pressed, the indicator is switched in the order of:

→0:00→0:10→0:20→···→1:00→1:10→ (Units of ten minutes)

Each time the ⌄ button is pressed, the indicator is switched in the order of:

→0:00→23:50→23:40→ ···→23:00→22:50→ (Units of ten minutes)

Set at 22:30.

4 **Press the OFF TIMER button.** Press within 60 sec.!

The indication changes from blinking to steady lighting and the setting is complete.
The timer light (yellow) is on.

⇩

- The unit stops at the end of the set period of time.

Changing of set time

Set a new time by using the OFF TIMER button.

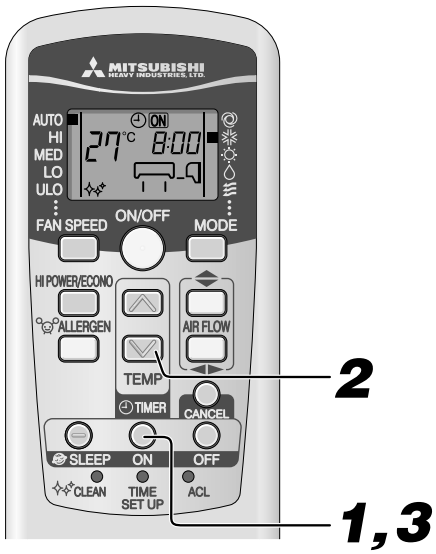
Releasing procedure

Press the CANCEL button to turn off the timer indicator.

ON-TIMER operation procedure

■ Operation starts 5 to 60 minutes before the time that is set so that the room temperature reaches the optimum temperature at that time. ON-TIMER operation can be set regardless of whether the air-conditioner is running or not.

Page 13



Example: In the case you wish to bring the temperature to nearly set temperature in at 8:00.

1 **Press the ON-TIMER button.**

ON TIMER indicator ON is blinking.

2 **Press the "△ or ▽" button.**

Each time the △ button is pressed, the indicator is switched in the order of:

→0:00→0:10→0:20→···→1:00→1:10→ (Units of ten minutes)

Each time the ▽ button is pressed, the indicator is switched in the order of:

→0:00→23:50→23:40→ ···→23:00→22:50→ (Units of ten minutes)

Set at 8:00.

3 **Press the ON TIMER button.**

Press within 60 sec.!

The indication changes from blinking to steady lighting and the setting is complete. The timer light (yellow) is on.

⇩

- Operation starts 5 to 60 minutes before the set time.
- The TIMER light goes out at the set time.

Changing of set time

Set a new time by using the ON-TIMER button.

Releasing procedure

Press the CANCEL button to turn off the timer indicator.

SLEEP operation + ON-TIMER operation procedure

■ Combined timer operation of SLEEP operation and ON TIMER.

Example: When it is desired to stop after 3 hours and then start operation at 8:00, near the set temperature.

■ **SLEEP operation setting**

Set by the procedures on page 11.

Set to 3H

■ **ON TIMER operation setting**

Set by the above mentioned ON TIMER operation procedure.

Set to ON 8:00

The setting of the lighting of the timer light (yellow) of this unit is complete.

⇩

- After the SLEEP operation set time has elapsed, the operation stops, and it starts from 5 to 60 minutes before the ON TIMER's time.
- The timer light is not lit at the ON TIMER's time.

Changing of set time

Set a new time by using the SLEEP or ON TIMER button.

Releasing procedure

Press the CANCEL button to turn off the timer indicator.

PROGRAM TIMER operation procedure

■ The timer operations that consist of the combination of the timer being set at both on and off. Once this has been set and operations started, operations will commence and end at the same time every day as long as the ON/OFF button is not pressed.

Example: When it is desired to stop at 22:30, and then start operation at 8:00, near the set temperature.

■ OFF TIMER operation setting

Set by the procedures on page 11. Set to OFF 22:30

■ ON TIMER operation setting

Set by the procedures on page 12. Set to ON 8:00

The setting of the lighting of the timer light (yellow) of this unit is complete.

The time will be displayed on the remote control unit. The display will change depending on the operational status.

ON ▸ OFF (Stopped) ON ◂ OFF (Operating)

Changing of set time

Set a new time by using the OFF TIMER or ON TIMER button.

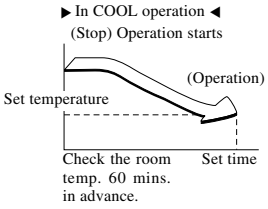
Releasing procedure

Press the CANCEL button to turn off the timer indicator.

About Amenity facilities

Amenity facilities enable to start the operation a little earlier, so that the room should approach optimum temperature at ON time when the operation is started by ON-TIMER.

- Mechanism
  The room temperature is checked 60 minutes before the timer is at ON. Depending on the temperature at that time, the operation starts 5 to 60 minutes before the timer is at ON.
- The Amenity facility only functions for COOL and HEAT operation mode (including AUTO). It does not work for DRY mode.



About SLEEP operation

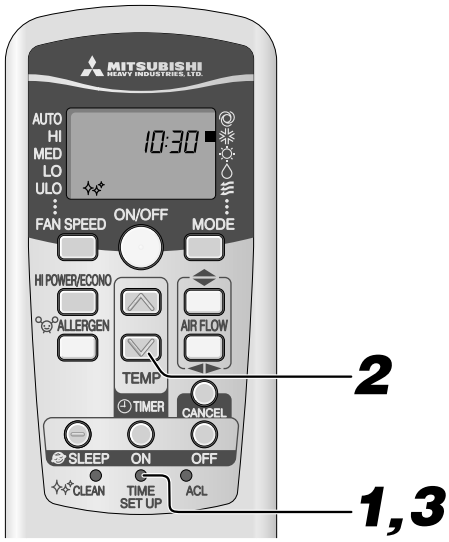
When SLEEP operation is selected, the room temperature is automatically controlled after a while, ensuring that the room is not too cold during cooling or too warm during heating.

- During COOL : the preset temperature is lowered by 1°C at the start of SLEEP operation (when the timer is set). After that, the temperature goes up by 1°C every an hour to become 2°C higher.
- During heating: Preset temperature is lowered by 1°C at the start of SLEEP operation (when the timer is set). After that the temperature is lowered by 1°C every 30 minutes to become 3°C lower in an hour and 6°C lower in two hours.

Present time setting procedure

■ When inserting the batteries, the present time is automatically set to 13:00.

Example: Set to 10:30.



1 **Press the TIME SET UP switch.**

Press with the tip of a ballpoint pen, etc.
The time indicator blinks and can be set to the current time.

2 **Press the "▲ or ▼" button.**

(Set to 10:30)

3 **Press the TIME SET UP switch.**

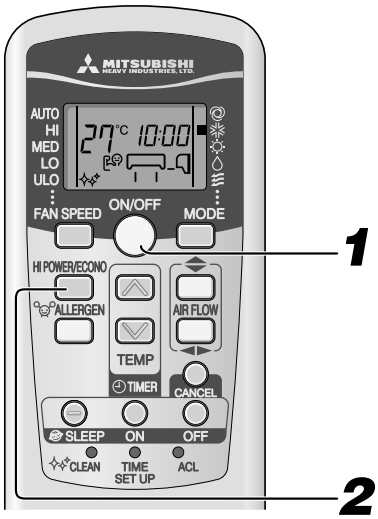
Press within 60 sec.!

The indication changes from blinking to steady lighting and the setting is complete.

NOTE

The timer operation is set on the basis of the present time, so please set it correctly.

HIGH POWER/ECONOMY operation procedure



If the air-conditioner is not operating, aim the remote control at the air-conditioner.

1 **Press the ON/OFF button.**

2 **Press the HI POWER/ECONO button.**

- When the operating mode is AUTO, COOL or HEAT
  Each time the HI POWER/ECONO button is pressed, the indicator is switched in the order of:

  → (HIGH POWER) → (ECONOMY) → No indication (Normal operation) →

- When the operating mode is DRY or PROGRAM TIMER
  Each time the HI POWER/ECONO button is pressed, the indicator is switched in the order of:

  → (ECONOMY) → No indication (Normal operation) →

Concerning HIGH POWER operation

Pressing the HI POWER/ECONO button intensifies the operating power and initiates powerful cooling or heating operation for 15 minutes continuously. The remote control indicates but the FAN SPEED indication is erased.

NOTE

- During the HIGH POWER operation, the room temperature is not controlled. When it causes an excessive cooling or heating,press the HI POWER/ECONO button once more to cancel the HIGH POWER operation.
- HIGH POWER operation is not available during the DRY and the program timer operations.
- During ON timer operation, HIGH POWER operation will start when the ON time is reached.
- When the following operations are conducted HIGH POWER operation will be canceled.
  ① When the HI POWER/ECONO button is pressed again.
  ② When the operation mode is changed.
  ③ When it has been 15 min. since HIGH POWER operation has started.

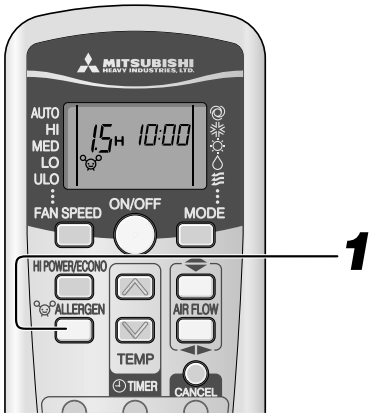
Concerning ECONOMY operation

Pressing the HI POWER/ECONO button intlates a soft operation with the power suppressed in order to avoid an excessive cooling or heating. The unit operates 1.5°C higher than the setting temperature for weak wind capacity during cooling or 2.5°C lower than that during heating. The remote control indicates but the FAN SPEED indication is eraseed.

NOTE

- It will go into ECONOMY operation the next time the air-conditioner runs in the following instances.
  ① When the air-conditioner is stopped using the ON/OFF button.
  ② When the air-conditioner is stopped in SLEEP or OFF TIMER operation.
  ③ When CLEAN or ALLERGEN CLEAR operation ends.
- When the following operations are conducted ECONOMY operation will be canceled.
  ① When the HI POWER/ECONO button is pressed again.
  ② When the operation mode is changed DRY to FAN.

ALLERGEN CLEAR operation procedure



■ The power of enzymes is used to eliminate allergy-causing allergens that accumulate on the allergen clear filter.

Aim the remote control at the air-conditioner.

1 **Press the ALLERGEN CLEAR button.**

To stop:	Press the ON/OFF or ALLERGEN CLEAR button.

NOTE

- Since the room temperature may change quite a bit, it is recommended that this be used when no one is in the room. (It completes automatically in approximately 90 min.)
- During ALLERGEN CLEAR operation temperature, fan speed, air flow direction and timer operations settings cannot be made.

Concerning CLEAN operation

■ CLEAN operation should be run after AUTO, COOL and DRY operation to remove the moisture from inside the indoor unit and control the growth of mold and bacteria.

1 **Press the CLEAN switch with the tip of a ballpoint pen.**

Each time the CLEAN switch is pressed, the indicator is switched in the order of:

(CLEAN on) → No indication (CLEAN off) →

To stop:	Press the ON/OFF button.

NOTE

- CLEAN operation is impossible after Heating, Fan, OFF-TIMER and Allergen clear operations have stopped.
- The indoor unit fan runs for about two hours in CLEAN operation.
- The RUN light flashes during CLEAN operation.

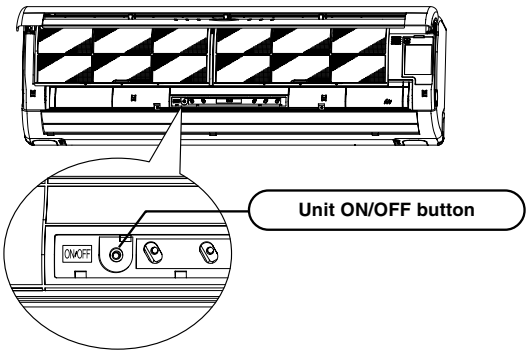
Emergency run operation

- The unit ON/OFF button on the unit operates ON/OFF temporarily when the remote control is not used.

Operation program

- OPERATION MODE : AUTO
- FAN SPEED : AUTO
- AIR FLOW : AUTO

- Operation starts by pressing the unit ON/OFF button; it stops if you press the button again.



Power blackout auto restart function

■ **What is power blackout auto restart function?**

- Power blackout auto restart function is a function that records the operational status of the air-conditioner immediately prior to it being switched off by a power cut, and then automatically resumes operations at that point after the power has been restored.
- The following settings will be cancelled:
  ① Timer settings
  ② HIGH POWER operations

NOTE

- The power blackout auto restart function is set at on when the air-conditioner is shipped from the factory. Consult with your dealer if this function needs to be switched off.
- When power failure ocurrs, the timer setting is cancelled. Once power is resumed, reset the timer.

Remote control handling procedure

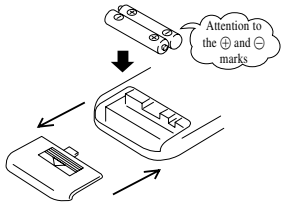
Replacing the batteries

The following cases signify exhausted batteries. Replace old batteries with new ones.

- Receiving beep is not emitted when a signal is transmitted.
- Indicator fades away.

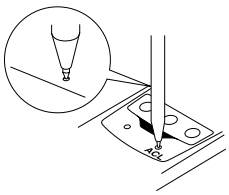
1 **Remove back lid and take out old batteries.**

2 **Insert new batteries. (SUM-4 or R03x2)**



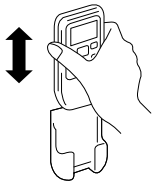
3 **Close back lid.**

4 **Press the reset switch with the tip of a ballpoint pen.**



Using the remote control holder

The remote control can be attached to a wall or pillar by using a remote control holder. Before installing the remote control, check that the air-conditioner receives the signals properly.



For installing or removing the remote control, move it up or down in the holder.

NOTE

- Don't use old and new batteries together.
- Remove the batteries when the remote control is not used for a long period.
- The life of a battery conforming to JIS or IEC should be 6 to 12 months with normal use. If used longer, or when an unspecified battery is used, liquid may leak from the battery, causing the remote control to malfunction.

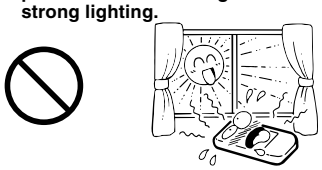
When the indicator shows any abnormal condition, Press the reset switch with the tip of a ballpoint pen.

- On the battery is printed its expected life. This may be shorter than that of the air-conditioner, depending on the date of manufacture.
- However, the battery may still be in working order after expiry of its nominal life.

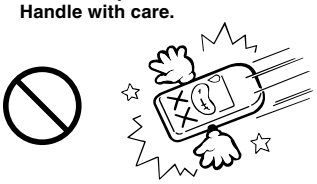
Warning note for remote control handling

- **Don't go near high temperature places, such as an electric carpet or stove.**

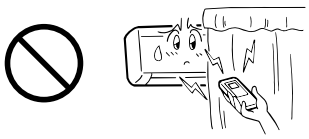
- **Don't leave the remote control exposed to direct sunlight or other strong lighting.**



- **Don't drop the remote control. Handle with care.**

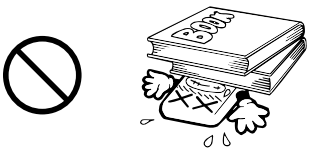


- **Don't put any obstructing obstacles between the remote control and the unit.**



- **Don't spill water etc on the remote control.**

- **Do not place heavy objects on the remote control, or step on it.**



When the operation fails with the remote control

- Are the batteries running down?

  "Replacing the batteries" above.

  Replace the batteries with new ones and repeat the operation.

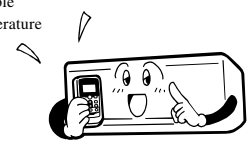
- If the operation still fails, handle as per emergency run operation.
  Contact your dealer.

Page 15

Operating hints

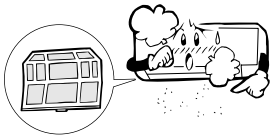
■ Please observe the following for the most economic and comfortable use of your unit.

Set a suitable room temperature.



Excessively high or low temperatures are not good for your health and waste electricity.

Clean the filters frequently.

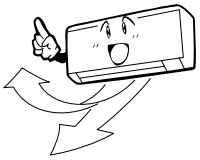


Clogged filters may block the air flow and cause less efficient operation.

Avoid direct sunlight and draught.

Cut out direct sunlight by drawing the curtains or blinds when cooling. Keep windows and doors shut, except when ventilating.

Adjust the airflow direction properly.



Adjust the up/down and left/right airflow to ensure a steady room temperature.

Operate the unit only when needed.

Use the timer properly to operate the unit only when needed.

Generate little heat when cooling.

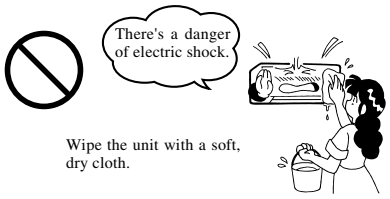
Keep heat sources out of the room as much as possible.

Maintenance

Before maintenance

Turn off the power switch.

- **Don't spill water.**



Wipe the unit with a soft, dry cloth.

- **Do not touch the aluminum fins on the heat exchanger.**
- **Stand firmly on a stepladder or other stable object when removing the inlet panel and filter.**

Don't use the following articles:

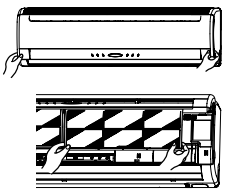
- Hot water (40°C or more)
  It may deform or discolour the unit.
- Petrol, paint thinner, benzine or polishing agents, etc.
  They may deform or scratch the unit.

During the operational season

Cleaning the air filter — **Standard interval is once every two week**

1 Remove the air filter

① Pull up to this side the air inlet panel.
② Lightly hold the knobs at both sides and lift a little to remove the panel to this side.



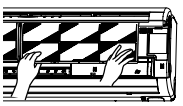
2 Cleaning

If the filter is very dirty, clean it with warm water (approx. 30°C), and dry it thoroughly.

⚠ CAUTION

- Don't clean the filters with boiling water.
- Don't dry them over an open flame.
- Pull them out gently.

3 Reinstall the air filter



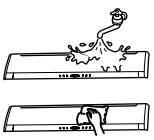
- Holding firmly the filter at both sides as shown at right and insert securely.
- Operating without putting back the air filters will make the unit dusty, and may cause damage.

Cleaning the unit

- Wipe the unit with a soft, dry cloth, or use a vacuum cleaner.
- If the unit is very dirty, wipe it with a cloth soaked in warm water.

Cleaning the air inlet panel

- Removal, installation of air inlet panel . Page 6
- The panel can be washed with water. After washing with water, wipe any moisture off the panel and dry out of direct sunlight.



NOTE

Cooling/heating is affected by an air filter clogged up with dust etc., and the operation noise becomes louder. It may also use extra electricity. Please clean the air filter at appropriate intervals.

At the end of the season

1 **Perform the fan operation for a half day.**

Dry the inside of the unit.

2 **Stop the unit and turn off the power switch.**

The unit uses appr. 2W even when the power switch has been turned off during the off-season for safety or for saving energy.

3 **Clean and reinstall the air filters.**

4 **Clean both the indoor and outdoor units.**

5 **Remove batteries from the remote control.**

At the beginning of the season

1 **Make certain that there are no obstacles blocking the air flow around the air intake and outlet openings of the indoor and outdoor units.**

2 **Check the installation base for corrosion or rust.**

3 **Ensure that nothing has snapped and that the earthed flex is not disconnected.**

4 **Ensure that the air filters are clean.**

5 **Turn on the power switch.**

6 **Insert batteries in the remote control.**

Installing, inspecting, and replacing the allergen clear filter and the photocatalytic washable deodorizing filter

1. Open the air inlet panel and remove the air filters.

2. Remove the filter holders, with the allergen clear filter and the photocatalytic washable deodorizing filter installed in the folders, from the air-conditioner.

3. Remove the allergen clear filter from filter holder and inspect the filter. Use a vacuum cleaner to remove any dust or dirt from the allergen clear filter. Replace the allergen clear filter if it cannot be cleaned or if it has been for about 1 year.
(The allergen clear filter should be replaced after about 1 year of use. However, the actual replacement period may vary depending on the conditions in which the filter is used.)

   Remove the photocatalytic washable deodorizing filter from the filter holder and inspect the filter. Periodically, remove any dust or dirt or from he photocatalytic washable deodorizing filter. If the photocatalytic washable deodorizing filter is particularly dirt, it may be washed with water. However, the filter is fragile so be sure to wash it installed in the filter holder to avoid damaging it. After washing the filter, place it in sunlight to dry. Placing the filter in sunlight revitalizes the deodorizing effect.

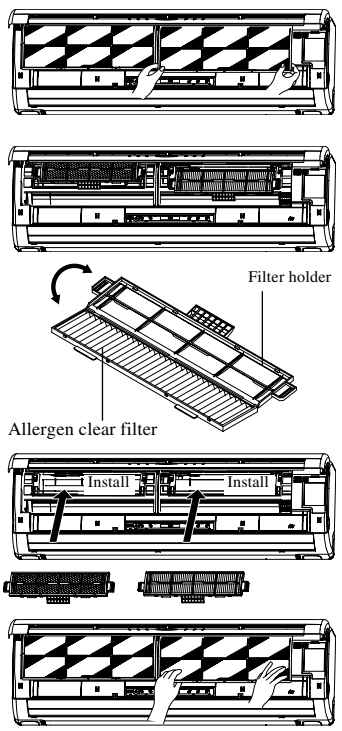
   (Do not dispose of the filter holders. They are reused.)

4. Install the allergen clear filter and the photocatalytic washable deodorizing filter in the filter holders, and then install the filter holders in the air-conditioner.

NOTE

The allergen clear filter and the photocatalytic washable deodorizing filter may be installed on either the right or left side of the air-conditioner.

5. Install the air filters and closed the air inlet panel.



For replacement allergen clear filters and photocatalytic washable deodorizing filters, contact your dealer.

Item	Feature	Color
Allergen clear filter	The power of enzymes is used to eliminate allergy-causing allergens that accumulate on the filter.	Light orange
Photocatalytic washable deodorizing filter	Sources of odors on the filter are broken up, resulting in a deodorizing effect.	Orange

Has the unit been installed correctly?

Suitable installation position

- Is there any obstruction in front of the indoor unit, preventing proper ventilation and functioning?
- Don't install the unit in any of the following places:
  - Where there is a danger of leaking inflammable gases.
  - Where there is substantial splashing of oil.
- Malfunctioning due to corrosion may occur if the unit is installed in a spa where sulfide gases are generated, or in a seaside resort exposed to sea breezes. Contact your dealer.
- The air-conditioner and remote control must be at least 1 metre away from a TV set or radio.
- Drain the dehumidified liquid from the indoor unit into a spot that drains well.

Pay attention to operating noises!

- When you install the unit, take care to choose a place that can comfortably stand the weight of the unit and does not increase the operating noise or vibration. If there is any likelihood that vibration may be transmitted through the house, fix the unit with the aid of vibration-proof pads between the unit and the fittings.
- Select a place where cold or hot air and operation noises from the indoor and outdoor units do not cause any inconvenience to your neighbours.
- Do not leave any obstacles near the outlet and inlet of the outdoor unit. This may cause malfunctioning and increased operating noise.
- If you hear an irregular noise during operation, contact your dealer.

Inspection and maintenance

Dependent upon service conditions and operating environment, the inside of the air-conditioner may become dirty after a number of seasons' service (3 to 5 years). This will reduce performance. In addition to normal cleaning, we would recommend inspection and maintenance. (The air-conditioner has a longer life without any trouble.)

- Contact your dealer, or any distributor, for inspection and maintenance. (There will be a charge for this service).
- We would recommend inspection and maintenance to be carried out during the off-season.
- If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.

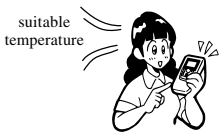
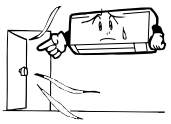
Troubleshooting

Please carry out the following checks before making a service call.

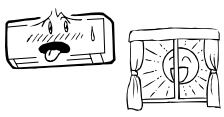
The air-conditioner does not work at all.

Has the power switch been turned off?	Has the timer been set in the "ON" position?	Is there a power failure or a blown fuse?

Poor cooling or heating

Have you set the thermostat at a suitable temperature?	Is the air filter clean? (Not clogged?)	Did you leave any doors or windows open?
		

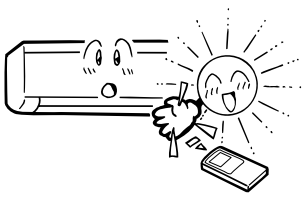
Poor cooling

Is there any direct sunlight entering the room?	Is there a heat source in the room?	Are there too many people in the room?
		

If the air-conditioner does not operate properly after you have checked the left points, or if any doubt still exists after you have consulted page 20, or if things happen as shown on page 21, switch off the power and contact your dealer.

An alternative refrigerant (R410A) is used in this air-conditioner. When asking the dealer for service or inspection and maintenance, explain the dealer about this matter.

Please remember!

You cannot restart the unit immediately after you have stopped it. (RUN light is on) 	Restarting has been blocked for 3 minutes after you have stopped or after switching off the power during operation, to protect the unit. The three-minute protection timer in the microcomputer automatically starts up again.
Air is not blown out when starting the HEATING operation. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	Air flow has stopped to prevent blowing out of cold air until the indoor heat exchanger has warmed up. (2 to 5 min.) (HOT KEEP)
Air is not blown out for 5 to 10 min. or blown out not warm wind for a moment at HEATING operation. RUN light blinks slowly (1.5 sec ON, 0.5 sec OFF)	When outdoor temperature is low and humidity is high, the unit sometimes performs defrosting automatically. Please wait. During defrosting, water or steam may escape from the outdoor unit.
Air is not blown out when starting the DRY operation. (RUN light is on)	The indoor fan may stop to prevent re-evaporation of dehumified moisture and to save energy.
Some steam escapes during COOL operation.	This may occur if the room's temperature and humidity are very high. It disappears as soon as the temperature and humidity decrease.
There is a slight smell.	Air blown out during operation may smell. This is caused by tobacco or cosmetics sticking to the unit.
You hear a slight gurgling sound. 	This is caused by refrigerating liquid moving within the unit.
You hear a slight cracking sound.	This is caused by heat expansion or contraction.
You hear a hissing or clicking sound.	This is caused by the operation of the refrigerant control valves or electric components.
After a power cut, you cannot re-start, even if power has been restored, unless you have the power blackout auto restart function.	The memory circuit of the microcomputer has been wiped out. Use the remote control to start the operation again.
Remote control signals are not received.	Remote control signals may not be received if the signal receiver on the air-conditioner is exposed to direct sunlight or other bright light. If so, cut out the sunlight or reduce the other light. 
Moisture may form on the air outlet grills.	If the unit is operated for a long time in high humidity, moisture may form on the air outlet grills and start dripping.
Whistling noise is heard from the outdoor unit.	The noise means that the revolution speed is picking up on the compressor.

When to contact your distributor without delay

■ **Turn off the power switch immediately and inform your dealer in any of the following situations:**

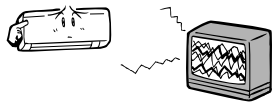
The fuse or switch blows continuously.

The cable becomes extremely hot.
The covering of the cable is cracked.

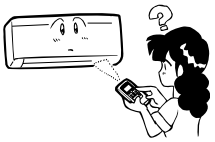
⚠ CAUTION

If the power cord becomes damaged, ask your dealer or a qualified engineer to install the replacement to avoid accidents.

The TV, radio or other equipment starts to malfunction.



A switch does not activate properly.



You hear a strange noise during operation.

When faulty movement is observed when the ON/OFF button is pressed, even after turning off the power switch and restarting the operation after 3 minutes, the faulty movement does not disappear.

The RUN and TIMER lights on the unit indication section blink quickly (0.5 sec. ON; 0.5 sec. OFF) and don't work.

Self diagnosis function

■ We are constantly trying to do better service to our customers by installing such judges that show abnormality of each function as follows:

		Description of trouble	Cause
TIMER light ON	RUN light ⇩ 1 time flash	Heat exchanger sensor error	• Broken heat exchanger sensor wire, poor connector connection
	2 time flash	Room temperature sensor error	• Broken room temperature sensor wire, poor connector connection
	6 time flash	Indoor fan motor error	• Defective fan motor, poor connector connection
RUN light keeps flashing	TIMER light ⇩ 1 time flash	Outdoor temperature sensor error	• Broken outdoor sensor wire, poor connector connection
	2 time flash	Outdoor heat exchanger fluid pipe sensor error	• Broken heat exchanger fluid pipe sensor wire, poor connector connection
	4 time flash	Discharge pipe sensor error	• Broken discharge pipe sensor wire, poor connector connection.
RUN light ON	1 time flash	Current cut	• Compressor locking, open phase on compressor output, shortcircuit on power transistor, closed service valve
	2 time flash	Trouble of outdoor unit	• Broken power transistor, broken compressor wire • Broken discharge pipe sensor wire, poor connector connection • Compressor blockage
	3 time flash	Over current	• Overload operation, overcharge
	5 time flash	Over heat of compressor	• Gas shortage, defective discharge pipe sensor, closed service valve
	6 time flash	Error of signal transmission	• Defective power supply, Broken signal wire, defective in/outdoor unit boards
	7 time flash	Outdoor fan motor error	• Defective fan motor, poor connector connection
RUN light 2 time flash	2 time flash	Rotor lock	• Defective compressor • Open phase on compressor • Defective outdoor unit boards

MITSUBISHI HEAVY INDUSTRIES, LTD.

AIR-CONDITIONING & REFRIGERATION SYSTEMS HEADQUARTERS

16-5, 2-Chome, Kounan, Minato-ku, Tokyo, 108-8215, Japan
Fax: (03) 6716-5926

MITSUBISHI HEAVY INDUSTRIES EUROPE, LTD.

AIR-CONDITIONER DIVISION

3rd Floor Thavies Inn House 3-4 Holborn Circus London EC1N 2HA, ENGLAND
Phone: 44(0)20 7842 8171
Fax: 44(0)20 7842 8104